

# FOLIO

## General Faculties Council

GFC met on 29 March and moved rather expeditiously through a fifteen-item agenda. In an early item, eighteen graduate and undergraduate students were appointed to serve on Council in 1982-83. The names and disciplines of the graduate students are: John Day, History; John Ellis, Germanic Languages; Dorothy Fabijan, Botany; Robin Hunter, Political Science; Richard Krause, Germanic Languages; Elizabeth McClintock, Educational Foundations; Susan McIntyre, Library Science; Ludger Mogge, History; Niall Shanks, Philosophy; and Allen Young, Comparative Literature. The undergraduate students and their disciplines are: Reg. S. MacDonald, Law; Richard Cote, Medicine; Navin Prasad, Medicine; Lennos Lakhram, Pharmacy and Pharmaceutical Sciences; Richard Coglon, Business Administration and Commerce; Wes Sawatzky, Business Administration and Commerce; Ross Bricker, Agriculture and Forestry; and Carolyn Karasiuk, Engineering.

Mark Hoyer, Vice-President (Academic), Students' Union, and Robert Greenhill, SU President, will also sit on Council as will staff members Gilles Cadrin, Faculté Saint-Jean, and C.M. Bourassa, R.A. Burwash, E. A. Cossins, and J. A. Kernahan, all from the Faculty of Science.

**Community Development Program**  
The Community Development Program will be discontinued. Council voted 58 to 3 in favor of ending the MA program which it initially approved in 1967. There will be no additional admissions;

the small number of students already enrolled, including those with unfinished theses, will carry on to completion. Each staff member has held a joint appointment in Community Development and another discipline and will thus revert to the other appointment.

An *ad hoc* committee struck to review the program was of the opinion that Community Development had "outlived its 1968 mandate as a loosely structured interdisciplinary graduate program."

### *Fraternities and Their Relationship to the University*

GCF's stance, taken after consideration of a submission from the Council on Student Services, is that the University acknowledge the Interfraternity Council, the Panhellenic Council, and their individual member-chapters as organizations that are autonomous of the University. In doing so, the University would maintain no supervisory role in the chartering, discipline, or cancellation of charters of such organizations. Such supervisory powers would be exercised by the Interfraternity Council for fraternities and the Panhellenic Council for sororities.

### *Institute for the Study of Learning Disabilities*

The institute *per se* is very much in the initial stages of development but a workable definition of learning disabilities emerged from the meeting. The definition, which reached Council from the Faculty of Education, is that "children, youths and adults with learning disabilities are those who manifest

a significant discrepancy between their estimated learning potential and actual performance. This discrepancy is related to basic disorders in the learning processes which may or may not be accompanied by demonstrable central nervous system dysfunction and which may be associated with cultural or environmental disadvantages."

### *Testing and Remediation*

The President's Committee on Testing and Remediation presented a report that was well received by Council. By a 59 to 6 vote Council determined that the Writing Competence Test continue to be a Faculty requirement and that, once a Faculty has made the test

compulsory, the following be the minimum requirements: that all students take the test, that all failing students take remedial classes and a retest, that all students failing the retest be required to continue working on their writing problems and to take another retest before the last term of their program, and that decisions concerning students who fail the second retest be made on an individual basis by the Faculty.

Seven Faculties are currently being tested with the Faculty of Physical Education and Recreation slated to join their number. Its inclusion would bring the total number of students to be tested to approximately 3,000. □

## Board of Governors

Friday, 2 April was B(udget) Day at this University. The Board of Governors approved the 1982-83 preliminary operating budget that provides for revenues totalling \$201,979,000 and net expenditures totalling \$202,949,000. The Governors also approved a tuition fee increase of 20 percent effective 1 September 1982.

At the same time that the Board Finance Committee presented the budget, Advanced Education and Manpower Minister Jim Horsman unveiled in the Legislature the Alberta Postsecondary Education Tuition Fee Policy. That policy appears herewith.

*Preamble: It is expected that students make a direct financial contribution to the operating costs of their postsecondary education*

*through tuition fees. The Boards of Governors at Alberta's post-secondary institutions should have the authority and flexibility to establish the exact levels of tuition fees. Thus, the authority to determine tuition fees shall be delegated to the individual Boards of Governors provided the decisions are in accordance with the following qualifications:*

1. Tuition fee revenues shall, in the aggregate, represent between 8 percent and 12 percent of the University's net budgeted operating expenditures.
2. Fees for equivalent programs shall not differ by more than 20 percent from one university to another.
3. The universities shall consult

annually together as to proposed fee schedules for the following year. Where universities cannot reach agreement on fees for a particular program in accordance with #2 above, the question shall be referred for resolution to the Universities Coordinating Council whose decision shall be final.

4. An additional fee equivalent to 50 percent of the applicable tuition fee shall be assessed to students enrolled who are not Canadian citizens or landed immigrants.

5. In any one academic year, tuition fees shall not increase by more than 1.5 times the Price Adjustment Factor in government grants provided to the post-secondary education system the previous fiscal year.

6. At the discretion of the Board, tuition fee levels may be adjusted beyond the confines of this policy to accommodate rounding to the nearest \$10 or to the nearest percentage point.

Deadlines flying in the face of *Folio* perforce limited coverage of the budget discussion and a number of other items dealt with by the Board. A further report will appear in next week's issue of *Folio*. □

## FOLIO

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## The Senate

At the most recent meeting of The University of Alberta Senate L.C. Leitch, Vice-President (Finance and Administration) assumed the guise of an experienced guide who was entrusted with the challenging task of leading a group of less than sure-footed Senators through the labyrinth that is the University's budgetary process. From the opening move in the Spring—a letter from the Minister of Advanced Education and Manpower asking for a submission on funding for the upcoming fiscal year—to the deliberations of (in order) the Planning and Priorities Committee, the Executive Committee of General Faculties Council, GFC itself, the Finance Committee of the Board of Governors, and the Board itself, to the preparation of the preliminary budget in late January or early February, to the final line-by-line budget, Mr. Leitch gave high finance a full hearing. What is more, no Senators were reported missing in action. Mr. Leitch almost became a casualty though by violently jerking his tongue out of his cheek where it had settled during his remark that "most of what I do is deadly dull as opposed to the glamour portfolios of the Vice-President (Academic) and the Vice-President (Research)."

Currently, about ninety percent of the University's revenue comes from the provincial government, eight percent is derived from tuition fees, and two percent comes from interest earned on various funds established by the University. Some \$30 million in research funds arrive annually with about \$20 million being supplied by federal granting agencies.

Mr. Leitch made Senators aware of the ironclad reality whereby money or portions of money allocated for buildings, for example, the fieldhouse and the new Business Administration and Commerce Building cannot be transferred to alleviate strain on the operating budget.

The costs faced by the Univer-

sity generally exceed the Consumer Price Index, he said. Library acquisitions are prominent here as most of them are imported from other countries and publishing costs increase forty to fifty percent annually.

Other items that have to be considered and which have a decided impact on the preparation of the budget are utilities and the likely level of staff salary settlements.

There is also the budget adjustment fund for internal reallocation as new priorities materialize, the new fund raising campaign, the reduction of positions (achieved so far through attrition), and position control mechanisms.

The budget is a perennial in Wild Rose Country, the knowledge of which likely makes Senators happy that they are where they are and Mr. Leitch is where he is.

In other Senate news, Gary Campbell was reappointed by the Minister of Advanced Education and Manpower to a second three-year term as a public member of Senate.

The Senate and guests of the Senate were reminded of the meeting of 30 April at which time the long awaited report of the Senate Commission on University Purpose will be presented. It will also be the last Senate meeting presided over by Chancellor Forest. □

### 13 April



## University of Alberta Research Prize Lectures

Professors Raymond Lemieux and Leslie Green, the first recipients of The University of Alberta Research Prizes, will lecture on Tuesday, 13 April, at 8 p.m. in SUB Theatre

### Topics:

Structure and Recognition at the Molecular Level (Professor Lemieux)  
Terrorism and the Law (Professor Green)

Everyone welcome  
Reception to follow

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## Fieldhouse Use Following the World University Games

The University of Alberta is currently constructing a fieldhouse which is located on the south annex of the Physical Education and Recreation Buildings. Completion date for the fieldhouse is set for April 1983, as the fieldhouse is slated to be the site of the basketball competitions during Universiade '83 from 1 to 11 July of next year. Seating 10,000, the facility will contain a portable wooden basketball floor and will receive world-wide exposure by means of the television coverage of this most prestigious event. It is entirely possible that the final four teams in men's basketball could be the United States the Soviet Union, Yugoslavia, and Canada.

Many are probably wondering what will become of the fieldhouse following the Games. Will the varsity teams take over? Will the building be the exclusive domain of Physical Education students? Will the building be University owned? Could the fieldhouse become a white elephant? The following information may help to clarify some unanswered questions and

concerns.

Funding for the fieldhouse was provided by a grant to the University from Alberta Advanced Education and Manpower. The University will oversee the operation, maintenance, and scheduling of the facilities, but the fieldhouse, like all University facilities, will be of benefit to all citizens of Alberta.

The seating capacity for the Games will be 10,000. Following the games, the seating capacity will be reduced to 2,400 permanent seats and an additional 2,700 seats of the telescopic (retractable) type. The floor area of the fieldhouse will measure 106 metres by 62 metres with the permanent seats. When the telescopic seats are extended, the floor area will measure 106 metres by 52 metres. The floor surface, following the Games, will be a 12 mm synthetic type of material similar to that used in indoor stadiums throughout North America.

The large surface area of the floor will include a 200 metres, six lane track with run-off areas for the shorter sprint events. Outside the track, areas have been specifically

designed for the high jump, long jump, and pole vault. These would be used for practice events. During track and field competitions, these field events can be moved to the infield to accommodate better spectator viewing. With such a facility, it is easy to envision track and field events similar to The Journal Indoor Games being a yearly event at the University.

The infield of the track area will also accommodate a large scale gymnastics meet. Simultaneous women's and men's competitions can be held hence international, national, and provincial competitions will undoubtedly be hosted in the facility.

The fieldhouse will be an outstanding and multi-purpose high level sports facility upon the completion of the Games. But, more importantly, it will be a recreational and intramural facility without equal in Canada. With the telescopic seats retracted, the large surface will host a multitude of different activities. The infield of the track is separated from the track by a removable nylon net which will be suspended from the ceiling. This allows activities on the infield to proceed without interfering with events on the track. The infield is a multi-purpose area with facilities for either four basketball courts, four tennis courts, or four volleyball courts. Additional nylon netting suspended from the ceiling will provide division between each of the four courts. Other activities which can take place in the infield are soccer, European team handball, indoor field hockey, and golf. The synthetic floor material will be ideal for sports such as basketball and tennis which require resiliency. Picture, if you will, four intramural basketball games being played in the infield, joggers using the 200 metre track, badminton enthusiasts enjoying the four courts outside of the track, and high jumpers, pole vaulters, and long jumpers

practising their skills. And all this taking place at one time! Replace the basketball games with four tennis matches or four volleyball matches and it is easy to envision the building as a much needed recreation facility for students and staff alike.

The fieldhouse would not be complete without locker rooms. A major consideration in developing the fieldhouse was the provision of individual team rooms to be used by the competing nations during the World University Games. However, flexibility has once again received special emphasis and, as a result, the rooms may be used for either males or females and in many instances can be combined to form larger individual rooms. Located beneath the permanent seating of the fieldhouse, the locker facilities will connect directly to the existing Physical Education and Recreation complex and allow for a new centralization of locker facilities within the adjoining buildings.

The fieldhouse will not be limited to use by the immediate University population. As with all other facilities of the University, important community use will be made of the building. For example, city and provincial championships for high school basketball, volleyball, gymnastics, and track and field will undoubtedly be hosted. Cultural festivals, such as marching and pipe band competitions, ethnic dance, and art and crafts displays could make use of the fieldhouse. Student rallies and forums could also be held. The facility is also fully designed to accommodate the handicapped.

In July 1983 Edmontonians and the University community, in particular, will have a magnificent fieldhouse in which to "Welcome the World." After the Games, the facility will be enjoyed by many which is, after all, a legacy of hosting a major international sport and cultural festival.\* □

*\*The above article, written by Linda Smith, is the third in a continuing series on the World University Games.*

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## Security Safeguards

*The following information reached Folio from W.F.G. Perry, Director of Campus Security and Parking Services.*

A male student was robbed at knife-point in the early evening of Wednesday, 24 March while walking down a side stairwell in the Central Academic Building.

Although a good description of the thief was obtained, he has not yet been identified. The matter is under investigation by the Edmonton City Police.

Members of the campus community are cautioned to be alert to the possibility of theft or physical harm and should take precautions to avoid same.

Persons studying or using University facilities, especially during quiet hours or in remote

locations, should endeavor to have someone accompany them.

Personal property such as purses, wallets, calculators, *et cetera* should not be left unattended even for a short period of time.

Campus Security (432-5252) should be informed of any suspicious activities observed.

Campus Security does provide an escort service on campus to take concerned persons to bus stops, parking lots, *et cetera*, and endeavors, within the constraints of its establishment, to provide security to the campus community.

The important thing is to be alert to the possibility of danger and to avoid situations that might offer an opportunity for theft or assault.

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## Faculty of Science McCalla Professorships

G.J. Butler, Department of Mathematics; E.A. Cossins, Department of Botany; and W.A.G. Graham, Department of Chemistry have each been named a McCalla Professor for the 1982-83 academic year. The title is synonymous with research and an individual's complete application to same. For Dr. Butler, two areas in mathematical modelling are waiting. The first concerns competitive, predator-prey and food chain systems arising in ecology. The simplest competitive device is that of microbial growth under a controlled nutrient environment. In time, mathematicians established the existence of a hierarchy among competing microbial populations in terms of a "fitness" parameter for each population.

According to Dr. Butler, if the forced nutrient input of the chemostat is replaced by a reproducing organism, then a competitive predator-prey system results. "Even in the simplest case of two competing predator species and one prey species, the

resulting system has only been partially analyzed mathematically together with some numerical studies. Results so far indicate that there is a rich variety of behaviors for such a system, ranging from dominance of one predator species, through coexistence, to extinction of that species and dominance of the other predator species."

Dr. Butler's objective is to furnish a complete mathematical analysis of the two predator-one prey and the two predator-one prey-one resource models.

In his research proposal for the Professorship, he noted that the chemostat has become a popular model of population growth for food chains and that it has potential application in a variety of ecological contexts, for example, in the harvesting of fish and in the study of water treatment plants.

Dr. Butler, who plans to write a book on the chemostat, has taken as the second aspect of modelling the realm of population genetics.

As he related in his application,

"the effect of mutations on stable polymorphic equilibria is unknown in general. When the model is supplied with fertility differences according to mating types, Mendelian genetics no longer apply." Most of the results for this type of model are very recent and Dr. Butler is eager to develop the ideas involved by imposing an ecological component to such models, pointing out that there seems to be a number of situations in which a genetic disadvantage is offset by some environmental selective advantage.

Dr. Butler's investigation dovetails with the preliminary progress made with these models and with the recent advances of nonlinear mathematical techniques.

Dr. Butler received his PhD from University College, London in 1968 and his first University of Alberta appointment occurred in 1971. He achieved the rank of Professor of Mathematics in 1980.

The research work of Dr. Cossins pertains to plant folate metabolism. In conjunction with the McCalla Professorship, he will immerse himself in the characterization of the folylpolyglutamate synthetases (FPGS) of *Neurospora* wild type and alterations in these activities associated with mutations at the *met-6* and *mac* loci. Dr. Cossins will also continue his examination of  $C_4$  metabolism in isolated bundle sheath cells of *Zea mays* to assess the metabolic relationships between folate-dependent reactions and the  $C_4$  pathway of photosynthesis. Dr. Cossins has been Professor of Botany (Plant Biochemistry) at this University since 1969. He gained a baccalaureate in Botany from the University of London in 1958 and was conferred a PhD from the same institution three years later. He was a postdoctoral Research Associate at Purdue University in the academic year leading up to his appointment to The University of Alberta's Department of Botany in 1962.

Last year, he received the degree of Doctor of Science from

the University of London. The presenters cited Dr. Cossins' original contributions of a high standing to the fields of carbon-one and folate metabolism, amino acid metabolism and biosynthesis, and intermediary and ethanol metabolism.

During his tenure of the Professorship, Dr. Graham will continue his research into the activation of carbon-hydrogen bonds.

According to Dr. Graham, a member of the Department of Chemistry since 1962, "one of the most challenging problems of homogeneous catalysis is the activation of C-H bonds." It appears that such activation involves the insertion of a transition metal compound into a C-H bond; such insertions have been observed since 1965 involving aromatic C-H bonds, while similar insertions into aliphatic C-H bonds have only been observed when the bond was partly activated in other ways. Last year, however, Dr. Graham and his colleagues were fortunate to discover the first example of an insertion into the generally less reactive aliphatic C-H bond when, in the course of other studies, it was observed that an iridium compound lost CO upon irradiation with ultraviolet light. This forms a reactive intermediate which rapidly inserts into a C-H bond of the solvent, neopentane.

As a result of this fortunate discovery, Dr. Graham proposes to undertake during 1982-83 a detailed experimental study of insertions by metal complexes into C-H bonds of various kinds. He will attempt to answer several questions relating to the special quality of the iridium compound (that allows it to react in the way observed) and to other matters related to the insertion of such compounds.

Dr. Graham, a well-known scholar in his field, has published more than 100 articles and studies. In 1970, he was awarded the Noranda Lecture Award of the Chemical Institute of Canada. □

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## A Tribute

The Office of Student Affairs would like to acknowledge publicly the generosity of the volunteers in its Services for Disabled Students program. Their time and skills have helped to compensate for physical limitations imposed on some of the disabled students on this campus. Their contributions include the following: more than 100 hours of assigned reading on to tapes, writing out 35 exams from dictation, taking notes in 15 courses, mobility assistance, errand running, library search assistance, and special projects. Though their personal satisfaction in volunteering may be their only expectation, it is appropriate to give recognition to them for the use of their time and energy in

such important activities.

The University students and volunteers from off campus hereby thanked are: L. Ayling, A. Barclay, L. Bardak, M. Barr, D.L. Beckman, C. Bentley, E. Bergeron, G.S. Choudhury, K. Decore, L. DeJong, S. Demco, R. Derkson, S. Ditzel, M. Dupuis, C. Ellis, F. Farmand, A. Ferri, K. Ford, N. Fraser, M. Fyfe, E. George, G. Guillet, H. Harrison, G. Hill, T. Hilbich, L. Holthe, T. Horan, M. Jess, J. Jopp, L. Kemp, J. King, K. Kolaroff, C. Lunde, D. Mack, J. McEwen, B. Miller, H. Munro, M. Naslund, S.J. Nesbitt, E. Opoku, D. Pallant, B. Parker, A. Poitras, L. Portlock, A. Ritchie, A. Rossier, L. Schmeeckle, S. Sedler, J. Slinger, J. Staal, K. Wiebe, and L.D. Zutz. □

## Gwynn Nettler Honored by American Society of Criminology

Gwynn Nettler, Emeritus Professor of Sociology, University of Alberta, has won the Sutherland Award for outstanding contribution to research and theory in criminology, a prize given annually by the American Society of Criminology. Professor Nettler is the first Canadian to have been so honored.

Professor Nettler's work has attracted international attention, principally through publication of his popular textbook, *Explaining Crime*, which is to appear in a third edition next year. His research on Canadian embezzlers revised a standard theory of the causes of this "high class" crime and his psychological evaluations of varieties of violent offenders expanded conceptions of the many sources of assault and homicide.

Professor Nettler's latest book, *Criminal Careers*, is being published this year in four volumes. The first volume, *Explaining Criminals*, demonstrates how interpretations of careers—lawful, criminal, or in-between—move with assumptions about human behavior and with the purposes of inquiry. The second volume, *Killing One*

*Another*, describes the many roads to homicide, shows that human beings both condemn killing and justify it, and suggests a novel way of interpreting changes in levels of violence. Volume 3 in this series, *Lying, Cheating, Stealing*, examines the range of injuries inflicted through deception and theft. This volume is the first text to discuss treason as one of the major crimes of deception. It also describes the many styles of stealing by fraud, by force, and by stealth.

A book titled *Responding to Crime* concludes the Criminal Careers series with a critical analysis of the reasons for responding to crime and the consequences of different ways of doing so.

In addition to his prolific publications, Professor Nettler has earned a reputation as a stimulating teacher of both graduate and undergraduate students. He has supervised more PhD's in sociology and criminology than any other Canadian and his doctoral students occupy positions in government and academia in the United States as well as Canada. □

## Law Professor to Visit Women's Program

Constance Backhouse, Professor of Law at the University of Western Ontario, will visit the Faculty of Extension Women's Program. A graduate of Harvard Law School, Professor Backhouse has researched and written numerous journalistic and academic articles on sexual harassment, rape, violence against women, and women in the workforce. She co-authored *The Secret Oppression: Sexual Harassment of Working Women*, the first Canadian book on the

subject.

Professor Backhouse will speak at a free public forum on Sexual Harassment at 7:30 p.m., Friday, 16 April in the Students' Union Building Theatre. On Saturday afternoon Professor Backhouse will lead a workshop attended by representatives of local unions. The University Non-Academic Staff Association will also be represented.

For further information, please contact the Women's Program at 432-3093. □

## people

William C. Wonders (Geography) is the 1982 recipient of the Canadian Association of Geographers' Special Award for Service to the Profession of Geography. The award, intended "to recognize exceptional service over a period of years," will be made at the annual meeting of the CAG in Ottawa in June.

Dr. Wonders, on study leave for the current term, recently presented the theme paper "Regions and Regionalisms in Canada" by invitation at the annual meeting of the multi-disciplinary German Association for Canadian Studies at Grainau in the Bavarian Alps funded by Canada's Department of External Affairs. Subsequently, he lectured on northern Canadian resources development at four universities in southern California on a tour sponsored by the Canadian Consulate General in Los Angeles.

To honor his contribution in helping to shape the development of culture in Edmonton, the City of Edmonton has awarded a cultural achievement award to Pierre Bokor, Artistic Director of Théâtre Français d'Edmonton. The annual honors and awards presentation was held in the Toquin Room, Macdonald Hotel, on 18 March 1982.

Congratulations to Pierre Bokor from Faculté Saint-Jean.

Walter Jungkind (Art and Design) is the recipient of the Professional Citation for Graphic Design as part of the 1982 Design Canada Awards. It is the first time that the citation has been awarded to a designer in western Canada.

Professor Jungkind was presented the award at the 1982 Design Canada Awards Event in Montreal on 24 March.

## service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

### Coming Events

#### Films

*Whitewater Film Festival*  
8 April, 6:30 p.m. \$2 admission.  
Tory Lecture Theatre B-1.

*Department of Germanic Languages*

14 April, 7:30 p.m. "Primel-Kleines Mädchen zu verleihen." (1971) Arts 17.

#### Music

*Department of Music*

10 April, 8 p.m. Tami Cooper, flute (a senior student recital)  
13 April, 8 p.m. Cathy Janakas, piano (a senior student recital)  
14 April, 5 p.m. Ormand Jones, trombone (a junior student recital)  
15 April, 5 p.m. Gery Kruschke, tenor (a junior student recital)  
All performances in Convocation Hall.

*Edmonton Chamber Music Society*

14 April, 8 p.m. "Music from Marlboro," an ensemble from the Vermont Music Festival. SUB Theatre.

#### Exhibitions

*Ring House Gallery*

Until 30 April. Creation Quebec 81. A presentation showing printmaking activity in Quebec, organized by the Université de Sherbrooke.

*SUB Art Gallery*

Until 18 April. Annual U of A BFA Show. Works in all media by the graduating students in the Fine Arts program.

#### Theatre

*Faculté Saint-Jean*

*Théâtre Français d'Edmonton*  
9, 10, 11, 16, 17 and 18 April. "Au Revoir Charlie." (Goodbye Charlie). A comedy by George Axelrod. For more information, phone 469-0829.

#### Radio and Television

*Department of Radio and Television*

Programs broadcast on CKUA radio (580AM/95FM)

9 April, 8 p.m. "Voiceprint." Language and literature and the evolution of human communications.

10 April, 7 p.m. "University Concert Hall." Recorded music from Convocation Hall.

#### CFRN TV

Until 3 May, (Mondays). Ann M. Pagliaro, Assistant Professor of Nursing, University of Alberta, recorded in Edmonton. This series will present a brief review of the history of nursing.

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## Non-Credit Courses

### Faculty of Extension

**Occupational Ergonomics: Control of Injuries in Manual Lifting**  
Date: 15 April. Time: 1 to 4:15 p.m.  
Fee: \$50. Information, 432-5038 or 432-3037.

**Quality Control in Food Service**  
Date: 20, 21 April. Fee: \$125 (\$215 for both courses). Information, 432-5038 or 432-3037.

### Public Policy Analysis

Date: 20 April to 11 May (Tuesdays). 7 to 10 p.m. 20 and 21 May, 9 a.m. to 5 p.m. (Workshop). Fee: \$220 including luncheon and materials.  
Limit: 22. Deadline: 13 April.  
Information, 432-5052.

### Applied Behavioral Sciences Courses

5 to 8 April. Personal Counselling Methods.  
6 and 7 April. Release Your Brakes.  
16 to 18 April. Couples Workshop for Relationship Enrichment.

### Ourselves as a Facilitative Tool

Date: 19 to 21 April. Time: 9 a.m. to 4:30 p.m. Fee: \$100.

### Client Problems: Their Identification and Resolution

Date: 22 and 23 April. Time: 8:30 a.m. to 4:30 p.m. Fee: \$65.

### Family Communication:

#### Family Interaction

Date: 24 and 25 April. Time: 9 a.m. to 4:30 p.m. Fee: \$50.

### Organization Effectiveness:

#### A Systems Approach

Date: 26-30 April. Time: 9 a.m. to 4 p.m. Fee: \$90.  
For more information on Behavioral Sciences Courses, phone 432-5069.

### Continuing Medical Education Advances in Ischemic Heart Disease

For more information and registration, contact The Division of Continuing Medical Education, 12-103 Clinical Sciences Building, The University of Alberta, Edmonton, Alberta T6G 2G3.

### Devonian Botanic Garden

#### Growing Your Own Herbs

Date: 14-21 April. Fee: \$12.

### Herbaceous Perennials

Date: 17 April to 21 May. Fee: \$25.

### Waterbirds at the Wetland Ecological Reserve

Date: 17 April (Sect. I). Fee: \$10.

### CPRS Research Techniques

Date: 12 May. Instructor: J. Dunn.  
Fee: \$40. Information, 432-2222.

## Lectures and Seminars

### Technocracy Inc.

8 April. 8 p.m. The conservator society with J. Gregory. Purple lounge, HUB Mall.

### Department of Applied Sciences in Medicine

13 April. 11 a.m. S. Sideman on "An artificial liver for the removal of bilirubin from the jaundiced newborn." 2-115 Clinical Sciences Building.

### Department of Anthropology

13 April. 2 p.m. A. Yengoyan on "Ontology, myths and language: Pitjantjatjara of Central Australia" 14-6 Tory.

### Department of Physical Therapy

14 April. 1:30 p.m. D. Chaffin on "Overview of Ergonomics." 2-115 Clinical Sciences Building.  
15 April. 10:30 a.m. "Occupational Biomechanics" by D. Chaffin. 218 Corbett Hall.

### Department of Biochemistry

13 April. 4 p.m. P. Davies on "The Structure and Expression of Antifreeze Protein Genes in the Winter Flounder." 231 Medical Sciences Building.

### Department of Sociology

14 April. 12:10 p.m. B. Robinson on "Martial Dissolution in Canada and the United States." 5-15 Tory.

### Faculty Women's Club

14 April. 7:30 p.m. Fashions by Ayers followed by brief business meeting. Banquet Room, Lister Hall. \$6 admission. Telephone 434-0569.

### Faculty of Extension and

#### Department of Religious Studies

15, 16, 19, 20, 21, 22, 23 April. 7 p.m. A series of video recorded discussions between J. Krishnamurti, D. Bohm and D. Shainberg. 218 Corbett Hall.

### Department of Biochemistry

15 April. 12:30 p.m. R. Dunn on "Bacteriorhodopsin: The Application of Site-Specific Mutagenesis to Structure-Function Studies of a Membrane Ion-Pump." 227 Medical Sciences Building.

### Faculty of Extension

16 April. 7:30 p.m. C. Backhouse will address a public forum on "Sexual Harassment: The Secret Oppression of Working Women." SUB Theatre.

## Computing Services

### Client Training Sessions

Computing Services is taking registrations between 8:30 a.m. and noon for the following non-credit courses. For further information, please telephone Information Services at 432-2463 or come to 319 General Services Building.

### Introduction to Computing

Course number: 522. Date: 13 April. Time: 1 p.m. Fee: \$5. Prerequisites: No previous computing experience, but familiarity with a keyboard is required. Place: 351 GSB.

### MTS Overview

Course number: 643. Date: 20, 22 April. Time: 12 noon. Fee: \$10. Prerequisites: MTS and Editor Fundamentals. Place: 328 GSB.

### MTS and Editor Fundamentals

Course number: 640. Date: 21, 23 April. Time: 1 p.m. Fee: \$10. Prerequisites: "Introduction to Computing" or equivalent working knowledge of a DECwriter terminal and MTS commands. Place: 351 GSB.

### Introduction to SPIRES

Course number: 566. Date: 26 April. Time: 4 p.m. Fee: \$5. Prerequisites: "MTS and Editor Fundamentals" and a good working knowledge of file editing and terminal use. Place: 328 GSB.

### Introduction to the Array Processor

Course number: 653. Date: 27 to 29 April. Time: 9 a.m. Fee: \$10. Prerequisites: Ability to write and execute fortran programs on AMDAHL.

### Faculty of Dentistry

17 April. J. Derbyshire on "Management and Treatment of Child Patients" and H. Dick on "General Oral Pathology." For information, call 432-5023 or 432-3066.

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## Notices

### Selection Committee for Chairman, Department of Finance and Management Science

The GFC Nominating Committee is seeking one faculty member, not a member of the department concerned, to serve on the above Selection Committee. Would those persons interested in membership in this committee, or those who have suggestions for nominees, please contact the Secretary of the Nominating Committee at 2-1 University Hall, telephone 432-4715. A brief vita of about five lines should accompany any nomination.

### Canadian Phytopathological Society

The Annual Meeting of the Canadian Phytopathological Society will be held at The University of Alberta 20 to 23 June 1982. For further information, call Y. Hiratsuka at (403) 435-7210 or

J.P. Tewari at (403) 432-3298 (after 30 April 1982 at (403) 432-3239).

### Retirement Dinner

The University's Purchasing Department invites people to attend the Lyall Foulston Retirement Dinner on 7 May 1982. The function will be held from 11 a.m. to 1 p.m. in the Convention Inn South, 4404 Calgary Trail, Edmonton. Tickets, which must be purchased before 29 April 1982, are available from N. Cotton, Purchasing Department, 201 General Services Building, telephone 432-5438.

### Clinical Sedative Trial

Insomniacs: Do you (1) take longer than one-half hour to fall asleep, (2) sleep less than 6 hours per night, (3) wake too early, (4) wake up more than twice per night?

Clinical sedative trial underway. Break the cycle. Limited numbers accepted. Phone Dianne at Research Clinic, Clinical Sciences Bldg. 432-6480 or 432-6599.

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## Positions Vacant

*The University is an equal opportunity employer, but in accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.*

### Editor, Riel Project

**Responsibilities:** Seeing manuscript through copy editing and production to film stage. Includes substantive editing, preliminary mark-up for designer, and proof reading. **Terms of employment:** The successful candidate will work closely with the coordinator of the Riel Project and the designer of the University Press. He/she will be hired on a two-thirds time basis (approximately 24 hours per week). This standard should be considered flexible, since it may occasionally be necessary to work longer hours in order to meet important deadlines. **Qualifications:** Bachelor's degree, some working knowledge of French, minimum 2-3 years editorial experience, and familiarity with technology involved in book production, some knowledge of western Canadian history would be an assets. **Salary:** Commensurate with qualifications. **Closing date for applications:** 16 April 1982. All applicants are asked to submit a written resumé to: Claude Rocan, Coordinator, Riel Project, 11045 90 Avenue, The University of Alberta. Telephone: 432-3170.

### Office Manager, Office of the Registrar

Applications are invited for the position of Office Manager. Responsibilities include personnel policies and recruitment, budget and accounting, purchasing and inventory control, enrolment statistics, and staff supervision. Salary: \$1,904.82-\$2,367.91. Send applications to: Dr. W.A. Blanchard, Registrar, 201 Administration Building.



### Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 2 April 1982.

Clerk Typist II (Part-time) (\$485.29-\$580.87)—Home Economics  
Clerk Steno II (\$970.59-\$1,161.75)—Faculty of Extension; Extension—Legal Resource Centre  
Financial Records Clerk (Term) (\$970.59-\$1,161.75)—Office of the Comptroller  
Data Entry Operator I (\$1,039.24-\$1,250.59)—Computing Services  
Student Records Processing Clerk (\$1,080.97-\$1,304.43)—Faculty of Nursing  
Clerk Typist III (\$1,080.97-\$1,304.43)—Physical Therapy; Occupational Therapy  
Clerk Steno III (\$1,080.97-\$1,304.43)—Business Administration and Commerce; Mechanical Engineering  
Systems Control Clerk (\$1,204.82-\$1,475.40)—Office of Administrative Systems  
Administrative Clerk (\$1,204.82-\$1,475.40)—Extension  
Medical Steno (\$1,204.82-\$1,475.40)—Psychiatry; Pediatrics  
Departmental/Executive Secretary (\$1,358.28-\$1,673.30)—Health Services Administration and Community Medicine; Faculté Saint-Jean; Fund Development Office  
Technician III (A/V) (Part-time) (\$769.24-\$952.41)—Home Economics  
Computer Assistant I (\$970.59-\$1,161.75)—Computing Services  
Animal Technician I (Trust) (\$1,204.82-\$1,475.40)—Health Science Building Animal Unit  
Technician I (Meat Cutter) (Trust)—\$1,204.82-\$1,475.40—Animal Science  
Technician I/II (Trust) (\$1,204.82-\$1,673.30)—Zoology  
Chemical Technician I (Trust) (\$1,204.82-\$1,475.40)—Chemistry; Microbiology  
A/V Technician I/II (\$1,204.82-\$1,475.40)—Physical Education  
Farm Technician I (Dairy) (\$1,204.82-\$1,673.30)—Animal Science  
Food Services Worker IV (\$1,250.59-\$1,538.68)—Housing and Food Services  
Electron Microscope Technician (Trust) (\$1,358.28-\$1,673.30)—Anatomy  
Technician II (\$1,358.28-\$1,673.30)—Medical Microbiology; Home Economics  
Technician II (Trust) (\$1,358.28-\$1,673.30)—Anatomy  
Biochemistry Technologist I (Trust) (\$1,417.51-\$1,747.33)—Surgery  
Laboratory Technologist I (\$1,417.51-\$1,747.33)—Provincial Laboratory  
Biochemistry Technologist I/II (Trust) (\$1,417.51-\$1,986.93)—Cancer Research Unit  
Engineering Technologist II (\$1,475.40-\$1,822.73)—Physical Plant  
Dental Hygienist (Term) (\$1,475.40-\$1,822.73)—University Health Services  
Plant Operator I (\$1,475.40-\$1,822.73)—Physical Plant (Cooling Plant)

Maintenance Worker II (\$1,538.68-\$1,904.82)—Physical Plant (Cooling Plant)  
Programmer Analyst I (\$1,538.68-\$1,904.82)—Faculty of Medicine  
Specialist Storekeeper I (\$1,538.68-\$1,904.82)—Central Stores  
Typographical Tradesman III (Offset Litho) (\$1,604.63-\$1,986.93)—Printng  
Typographical Tradesman III (Offset presses) (\$1,604.63-\$1,986.93)—Printing  
Technologist II/III (Trust) (\$1,604.63-\$2,264.26)—Pediatrics  
Engineering Technologist III (\$1,673.30-\$2,077.14)—Physical Plant (Operations and Energy Management)  
Programmer/Analyst II (\$1,822.73-\$2,264.26)—Office of Administrative Systems  
Office Manager (\$1,904.82-\$2,367.91)—Registrar's Office  
Engineering Technologist IV—(\$1,904.82-\$2,367.91)—Physical Plant (Operations and Energy Management)  
Programmer/Analyst III (\$2,168.70-\$2,705.81)—Computing Services  
Instrument Mechanic (\$2,518.53)—Physical Plant  
Balancing/Commissioning Foreman (\$2,830.53)—Physical Plant

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in Cameron Library—Room 512 should be consulted for further information as to availability and position requirements.

Library Assistant I (\$1,080.97-\$1,304.43) Acquisitions, Health Sciences.  
Library Assistant II (\$1,204.82-\$1,475.40) Acquisitions.

## Advertisements

### Accommodations available

For sale—Claridge House. Condominium apartment 11027 87 Avenue. Immaculate, sunny living room, balcony, southern exposure, view, two bedrooms, two baths, two parking stalls. Pat Anholt. Potter Realty. 436-3050, res. 436-1559.  
For sale—Parkallen. Three bedroom bungalow. \$70,000 mortgage at 14½% until Oct. 1985. Huge trees! DeAnna Larson 481-0936, 436-5250. Spencer Real Estate.  
For sale—(1) Appealing, Hearthstone townhomes. \$115,000 with large, open mortgage. (2) Featherstone condominium, two bedrooms. \$55,000 with \$37,000 at 10¼%. Call DeAnna Larson 481-0936, 436-5250. Spencer Real Estate.  
For sale—Executive townhome, like new (immaculate) near ravine. \$129,500 with \$73,000 at 13½% till Dec. 1985. Call DeAnna Larson 481-0936, 436-5250. Spencer Real Estate.  
Sublet—Furnished, two bedroom suite. Linens, dishes. Campus area. Available 1 May - 30 Aug. References required. Call 439-0480.  
For rent—Three bedrooms, small bungalow in Windsor Park, one block from University. From end Aug. for six months. \$650. 433-6795.  
For rent—Furnished, large, semi-bungalow in Parkallen. Completely renovated. Four bedrooms, two bathrooms, double garage. Beautiful, treed lot with secluded swimming pool. For caring people only. 1 July 1982 - Aug. 1983. 435-4387.  
For rent—May to Sept. 100 Ave. - 116 St. Furnished, one bedroom penthouse, balcony apartment. Parking stall, direct bus to University. \$450 monthly including utilities. References, damage deposit. 432-2466 or 482-2875.  
For rent—Main level, two bedroom in excellent, 107 St. - 79 Ave. area. Appliances, drapes, garage, garden. \$625 plus utilities. 1 May occupancy. 434-0569.  
For sale—Garneau Place 11011 - 86 Ave. Two bedroom unit, six appliances, heated parking, full security. Call Robert Kully, A.E. LePage 437-7480, 439-1985.  
For sale—Exceptional, four bedroom, two storey home in mint condition. Walk to the University from this Garneau charmer. Tom Mudry, A.E. LePage 436-6455, 464-5500 pager #1802.  
For rent—Furnished, four bedroom, sabbatical house, Belgravia. One year beginning July 1982. 432-3732, 435-8694.  
For rent—Late May - early September. Belgravia, furnished, three bedroom bungalow. Completed basement. Ideal for family. \$700/month plus utilities. Damage deposit. References. No pets. 432-5592, 434-4277 evenings.  
For rent—Four bedroom, furnished house, Windsor Park. 1 May - 31 Aug. \$750 month. References required. 439-0888.  
For sale—Deluxe condos. \$100,000 - \$143,000, 14¼%, 3 year mortgage, fireplace, balcony, 5 appliances, elevator, sauna, hot tub, exercise room, heated underground parking. Edward Frankow, open house daily 1 - 5 p.m. 432-1516, 463-7501.  
For rent—Women, 31, has bright house near University to share with grad. student. Immediately. \$220. 432-7185.  
For sale—Large cottage on beautiful Barriere Lake, 100' frontage, secluded with easy access off Yellowhead Hwy. \$42,000. Ken 433-5502 res., 421-1780. By owner.  
For rent—Immediately. Large, SxS duplex, three bedrooms. \$775 monthly, near University. 435-1345.  
For rent—Sherwood Park. Five bedrooms, 2½ baths, double garage, excellent location to schools, transportation. Furnished \$1,400, unfurnished \$1,200. Available 1 Aug. 1982 to 31 July 1983. Call (403) 467-2967.  
For rent—Furnished, three bedroom house. Blue Quill (opposite Derrick Club). Large yard, fireplace, family room. 10 May - 26 Sept. \$850 month. Phone 439-7311.  
For rent—Large home available for summer. Fully furnished. Very reasonable. 477-7453.  
For rent—July 1982 - one year. Furnished, two storey, four bedroom house, Parkview. Family/couples preferred. No pets. \$800 month exclusive. 483-9133.

For rent—Sabbatical house, Windsor Park. Aug. 1982 - July 1983. Three bedrooms, two baths, finished basement, piano, fireplace, garage, fenced yard, linens. 432-5620, 433-6213.  
For sale—Windsor Park. Super bungalow, three bedroom, two baths, fully developed, double garage. Resi Richter 483-9432, 455-4135 Weber.  
For sale—Ranch style bungalow with indoor swimming pool. Reduced \$20,000. Liz Crockford 434-0555, 436-5250 Spencer's.  
For sale—Windsor Park. Deluxe, 2,700', two storey, completely remodelled, jacuzzi, oak floors, two fireplaces, exceptional new Kitchen. Liz Crockford 434-0555, 436-5250 Spencer's.  
For sale—Classy, two storey, 2½ baths, family room, fireplace, 14% \$114,000 mortgage, Pella windows, alum. siding, recreational vehicle parking, double garage, backs onto park. Liz Crockford 436-5250. Spencer's.  
For sale—River valley view! Two, unique homes in excellent S.W. locations. Impeccable designer decor throughout. Liz Crockford 436-5250 Spencer's, 434-0555 res.  
For rent—Three bedroom bungalow, Parkview, lovely treed lot. July 1982 - July 1983. 483-2680 evenings.

### Accommodations wanted

Visiting professors wish to rent/house-sit (15 June - 15 Sept.) and (15 July - 1 Sept.) 432-3607.  
Visiting professor requires furnished, bachelor suite near campus. 1 June - 14 July. References. 432-3541.  
Teacher, 32 years of age, bachelor. Available for house-sitting during Spring-Summer Session and/or term sabbaticals. Terms negotiable. References available. 483-7724.  
Write 7911 - 146 St. T5R 0V5.  
Wanted to rent—Three bedroom house, near Parkallen School. For 1 July. Gord 432-2362, 489-7231.  
Furnished apartment wanted near University from mid-April - 1 Aug. (\$300 range). Call 420-1212, Rm. 207 after 5 p.m.

### Automobiles and others

Rabbit GTI, 1980, 19,000 km. Alloy wheels, sunroof, 5 spd., AM/FM cassette. Immaculate 438-1708.  
1978 SAAB GL, 2-door. Excellent condition, well maintained, safe, reliable, many options. Phone George at 466-6048 or 465-4366 (evenings, weekends).

### Goods for sale

Air ticket, one way to Manchester or London, England. 29 April 1982. \$250. Phone 434-0445 after 6 p.m.

### Services

Donnic Typing Services Ltd. Specializing in word processing. 301A 10454 Whyte Avenue. 432-1419.  
Kozak Business Services: Complete typing service available. Student discount. #305, 9924 106 Street. 423-3068, 478-1885.  
Singing teacher, Eileen Turner. 439-4661.  
Word processing service/Typing school/Photocopier/Typewriter rental/

Mark 9, 8919 112 St. HUB Mall,  
432-7936.

Massage by registered therapist, Mathew  
Shumaker. Appointments 452-3955.  
Relief for backache, stress, tension.

The Krieg Clinic provides specialized  
medical massage-chiro gymnastics.  
Fully qualified—German trained.  
M. Krieg C.Ph.T. 436-8059,  
11627 75 Ave.

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journeyman painter. Free estimates.  
Please phone evenings. Fred 433-2659.  
Will type term papers, theses, IBM  
Selectric. 481-3251.

Outdoor education summer camp for  
10-13 year-olds. Ministik Hills Field  
Study Centre. 19 - 23 July. 662-2280.  
Complete professional drafting services.  
434-6222.

Attention University Singles—Single,  
widowed, divorced persons working on  
campus are invited to join—Unitarian  
singles club for spring events. Social  
held 24 April, 12530 110 Ave., other  
events planned. Audrey 482-6795.

Typing Associates word processing will  
do theses, reports, manuscripts, etc.  
Pay by the page. 462-3825 after  
1 p.m.

## Tax Preparation and Consulting

Canadian and U.S.  
Individual and Corporate  
*Eberlein Consulting Services Ltd.*  
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## Aerobics plus 30

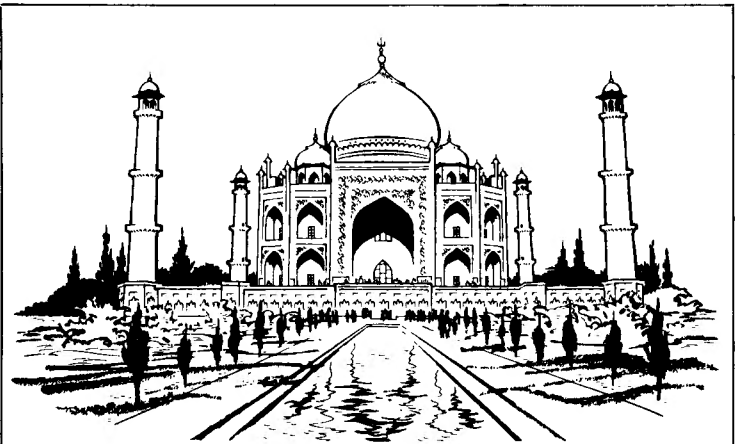
*(a late afternoon fitness class for ladies and men).*

Tuesday and Thursday  
Running from 20 April to 24 June

Beginners and experienced exercisers accommodated.

Fee \$44 for twenty lessons

Register by calling 432-2601



## Cultural Study Tour To India

December 13, 1982 through January 7, 1983

*Offered by the*  
FACULTY OF EXTENSION  
The University of Alberta

This tour, open to adults will be accompanied  
by Dad Prithipaul, Chairman,  
Department of Religious Studies.

Among the centres and sites to be visited are:

Cave Temples of Elephanta—Bombay  
Old Amber Fort—Jaipur  
New and Old Delhi  
Taj Mahal—Agra  
Buried Buddhist city of Sarnath  
The Bathing Ghat—Ganges River  
Boat trip—Ganges River  
Kathmandu  
Calcutta  
Sun Temple of Konarak  
Fisherman's Cove  
Madras  
Bangalore

The fee is \$4,300, which includes all  
transportation, hotels, most meals, and  
admission costs to temples, museums, etc.

Registrations are now being accepted, and the  
maximum number of participants is 20.

For brochure or information, phone  
432-3028 or 432-3033.